ENTERED

1646
2/19/2002
#5

Serial Number: 09/903,925 A

CRF Processing Date: 2/19/2002
Edited by: _____
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☑ Inserted or (corrected) a nucleic number at the end of a nucleic line.   SEQ ID NO's edited: 1 23

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

RECEIVED

FEB 2 2 2002

TECH CENTER 1600/2900

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☐ Deleted: ☐ ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.   3/1/95

RAW SEQUENCE LISTING   DATE: 02/19/2002
PATENT APPLICATION: US/09/903,925A   TIME: 18:51:37

            Input Set : N:\Crf3\02112002\I903925A.raw
            Output Set: N:\CRF3\02192002\I903925A.raw

```
 1 <110> APPLICANT: Genentech, Inc.
 2        Ashkenazi, Avi
 3        Botstein, David
 4        Desnoyers, Luc
 5        Eaton, Dan L.
 6        Ferrara, Napoleone
 7        Filvaroff, Ellen
 8        Fong, Sherman
 9        Gao, Wei-Qiang
10        Gerber, Hanspeter
11        Gerritsen, Mary E.
12        Goddard, A.
13        Godowski, Paul J.
14        Grimaldi, Christopher J.
15        Gurney, Austin L.
16        Hillan, Kenneth, J.
17        Kljavin, Ivar J.
18        Mather, Jennie P.
19        Pan, James
20        Paoni, Nicholas F.
21        Roy, Margaret Ann
22        Stewart, Timothy A.
23        Tumas, Daniel
24        Williams, P. Mickey
25        Wood, William, I.
26 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
27        Acids Encoding the Same
28 <130> FILE REFERENCE: 10466-14
29 <140> CURRENT APPLICATION NUMBER: US/09/903,925A
30 <141> CURRENT FILING DATE: 2001-07-11
31 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414
32 <151> PRIOR FILING DATE: 2000-02-22
33 <150> PRIOR APPLICATION NUMBER: US 60/143,048
34 <151> PRIOR FILING DATE: 1999-07-07
35 <150> PRIOR APPLICATION NUMBER: US 60/145,698
36 <151> PRIOR FILING DATE: 1999-07-26
37 <150> PRIOR APPLICATION NUMBER: US 60/146,222
38 <151> PRIOR FILING DATE: 1999-07-28
39 <150> PRIOR APPLICATION NUMBER: PCT/US99/20594
40 <151> PRIOR FILING DATE: 1999-09-08
41 <150> PRIOR APPLICATION NUMBER: PCT/US99/20944
42 <151> PRIOR FILING DATE: 1999-09-13
43 <150> PRIOR APPLICATION NUMBER: PCT/US99/21090
```

C--> 29 on line

RAW SEQUENCE LISTING
· PATENT APPLICATION: US/09/903,925A

DATE: 02/19/2002
TIME: 18:51:37

Input Set : N:\Crf3\02112002\I903925A.raw
Output Set: N:\CRF3\02192002\I903925A.raw

```
44 <151> PRIOR FILING DATE: 1999-09-15
45 <150> PRIOR APPLICATION NUMBER: PCT/US99/21547
46 <151> PRIOR FILING DATE: 1999-09-15
47 <150> PRIOR APPLICATION NUMBER: PCT/US99/23089
48 <151> PRIOR FILING DATE: 1999-10-05
49 <150> PRIOR APPLICATION NUMBER: PCT/US99/28214
50 <151> PRIOR FILING DATE: 1999-11-29
51 <150> PRIOR APPLICATION NUMBER: PCT/US99/28313
52 <151> PRIOR FILING DATE: 1999-11-30
53 <150> PRIOR APPLICATION NUMBER: PCT/US99/28564
54 <151> PRIOR FILING DATE: 1999-12-02
55 <150> PRIOR APPLICATION NUMBER: PCT/US99/28565
56 <151> PRIOR FILING DATE: 1999-12-02
57 <150> PRIOR APPLICATION NUMBER: PCT/US99/30095
58 <151> PRIOR FILING DATE: 1999-12-16
59 <150> PRIOR APPLICATION NUMBER: PCT/US99/30911
60 <151> PRIOR FILING DATE: 1999-12-20
61 <150> PRIOR APPLICATION NUMBER: PCT/US99/30999
62 <151> PRIOR FILING DATE: 1999-12-20
63 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219
64 <151> PRIOR FILING DATE: 2000-01-05
65 <160> NUMBER OF SEQ ID NOS: 423
67 <210> SEQ ID NO: 1
68 <211> LENGTH: 1825
69 <212> TYPE: DNA
70 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 1
72      actgcacctc ggttctatcg attgaattcc ccggggatcc tctagagatc cctcgacctc 60
73      gacccacgcg tccgggccgg agcagcacgg ccgcaggacc tggagctccg gctgcgtctt 120
74      cccgcagcgc tacccgccat gcgcctgccg cgccgggccg cgctgggggct cctgccgctt 180
75      ctgctgctgc tgccgcccgc gccggaggcc gccaagaagc cgacgccctg ccaccggtgc 240
76      cggggggctgg tggacaagtt taaccagggg atggtggaca ccgcaaagaa gaactttggc 300
77      ggcgggaaca cggcttggga ggaaaagacg ctgtccaagt acgagtccag cgagattcgc 360
78      ctgctggaga tcctggaggg gctgtgcgag agcagcgact tcgaatgcaa tcagatgcta 420
79      gaggcgcagg aggagcacct ggaggcctgg tggctgcagc tgaagagcga atatcctgac 480
80      ttattcgagt ggtttttgtgt gaagacactg aaagtgtgct gctctccagg aacctacggt 540
81      cccgactgtc tcgcatgcca gggcggatcc cagaggccct gcagcgggaa tggccactgc 600
82      agcggagatg ggagcagaca gggcgacggg tcctgccggt gccacatggg gtaccaggc 660
83      ccgctgtgca ctgactgcat ggacggctac ttcagctcgc tccggaacga gacccacagc 720
84      atctgcacag cctgtgacga gtcctgcaag acgtgctcgg gcctgaccaa cagagactgc 780
85      ggcgagtgtg aagtgggctg ggtgctggac gagggcgcct gtgtggatgt ggacgagtgt 840
86      gcggccgagc cgcctccctg cagcgctgcg cagttctgta agaacgccaa cggctcctac 900
87      acgtgcgaag agtgtgactc cagctgtgtg ggctgcacag gggaaggccc aggaaactgt 960
88      aaagagtgta tctctggcta cgcgagggag cacggacagt gtgcagatgt ggacgagtgc 1020
89      tcactagcag aaaaaacctg tgtgaggaaa aacgaaaact gctacaatac tccaggagc 1080
90      tacgtctgtg tgtgtcctga cggcttcgaa gaaacggaag atgcctgtgt gccgccggca 1140
91      gaggctgaag ccacagaagg agaaagcccg acacagctgc cctcccgcga agacctgtaa 1200
92      tgtgccggac ttacccttta aattattcag aaggatgtcc cgtggaaaat gtggccctga 1260
93      ggatgccgtc tcctgcagtg gacagcggcg gggagaggct gcctgctctc taacggttga 1320
```

file://C:\Crf3\Outhold\VsrI903925A.htm

2/19/02

```
94        ttctcatttg tcccttaaac agctgcattt cttggttgtt cttaaacaga cttgtatatt 1380
95        ttgatacagt tctttgtaat aaaattgacc attgtaggta atcaggagga aaaaaaaaaa 1440
96        aaaaaaaaaa aaagggcggc cgcgactcta gagtcgacct gcagaagctt ggccgccatg 1500
97        gcccaacttg tttattgcag cttataatgg ttacaaataa agcaatagca tcacaaattt 1560
98        cacaaataaa gcattttttt cactgcattc tagttgtggt ttgtccaaac tcatcaatgt 1620
99        atcttatcat gtctggatcg ggaattaatt cggcgcagca ccatggcctg aaataacctc 1680
100        tgaaagagga acttggttag gtaccttctg aggcggaaag aaccagctgt ggaatgtgtg 1740
101        tcagttaggg tgtggaaagt ccccaggctc cccagcaggc agaagtatgc aagcatgcat 1800
102        ctcaattagt cagcaaccca gtttt                                      1825
```

104 <210> SEQ ID NO: 2
105 <211> LENGTH: 353
106 <212> TYPE: PRT
107 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 2

```
109    Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu Leu
110     1               5                  10                  15
111    Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro Cys His
112                    20                  25                  30
113    Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met Val Asp Thr
114                35                  40                  45
115    Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Lys Thr
116            50                  55                  60
117    Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu Leu Glu Ile Leu Glu
118        65                  70                  75                  80
119    Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys Asn Gln Met Leu Glu Ala
120                    85                  90                  95
121    Gln Glu Glu His Leu Glu Ala Trp Trp Leu Gln Leu Lys Ser Glu Tyr
122                    100                 105                 110
123    Pro Asp Leu Phe Glu Trp Phe Cys Val Lys Thr Leu Lys Val Cys Cys
124                115                 120                 125
125    Ser Pro Gly Thr Tyr Gly Pro Asp Cys Leu Ala Cys Gln Gly Gly Ser
126        130                 135                 140
127    Gln Arg Pro Cys Ser Gly Asn Gly His Cys Ser Gly Asp Gly Ser Arg
128    145                 150                 155                 160
129    Gln Gly Asp Gly Ser Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu
130                    165                 170                 175
131    Cys Thr Asp Cys Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr
132                180                 185                 190
133    His Ser Ile Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly
134                195                 200                 205
135    Leu Thr Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp
136            210                 215                 220
137    Glu Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro
138    225                 230                 235                 240
139    Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr Cys
140                    245                 250                 255
141    Glu Glu Cys Asp Ser Ser Cys Val Gly Cys Thr Gly Glu Gly Pro Gly
142                    260                 265                 270
143    Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg Glu His Gly Gln Cys
```

```
144              275              280              285
145        Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys Thr Cys Val Arg Lys
146              290              295              300
147        Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr Val Cys Val Cys Pro
148        305              310              315              320
149        Asp Gly Phe Glu Glu Thr Glu Asp Ala Cys Val Pro Pro Ala Glu Ala
150                  325              330              335
151        Glu Ala Thr Glu Gly Glu Ser Pro Thr Gln Leu Pro Ser Arg Glu Asp
152              340              345              350
153        Leu
155  <210> SEQ ID NO: 3
156  <211> LENGTH: 2206
157  <212> TYPE: DNA
158  <213> ORGANISM: Homo sapiens
159  <400> SEQUENCE: 3
160        caggtccaac tgcacctcgg ttctatcgat tgaattcccc ggggatcctc tagagatccc 60
161        tcgacctcga cccacgcgtc cgccaggccg ggaggcgacg cgcccagccg tctaaacggg 120
162        aacagccctg gctgagggag ctgcagcgca gcagagtatc tgacggcgcc aggttgcgta 180
163        ggtgcggcac gaggagtttt cccggcagcg aggaggtcct gagcagcatg gcccggagga 240
164        gcgccttccc tgccgccgcg ctctggctct ggagcatcct cctgtgcctg ctggcactgc 300
165        gggcggaggc cgggccgccg caggaggaga gcctgtacct atggatcgat gctcaccagg 360
166        caagagtact cataggattt gaagaagata tcctgattgt ttcagagggg aaaatggcac 420
167        cttttacaca tgatttcaga aaagcgcaac agagaatgcc agctattcct gtcaatatcc 480
168        attccatgaa ttttacctgg caagctgcag ggcaggcaga atacttctat gaattcctgt 540
169        ccttgcgctc cctggataaa ggcatcatgg cagatccaac cgtcaatgtc cctctgctgg 600
170        gaacagtgcc tcacaaggca tcagttgttc aagttggttt cccatgtctt ggaaaacagg 660
171        atggggtggc agcatttgaa gtggatgtga ttgttatgaa ttctgaaggc aacaccattc 720
172        tccaaacacc tcaaaatgct atcttcttta aaacatgtca acaagctgag tgcccaggcg 780
173        ggtgccgaaa tggaggcttt tgtaatgaaa gacgcatctg cgagtgtcct gatgggttcc 840
174        acggacctca ctgtgagaaa gccctttgta ccccacgatg tatgaatggt ggactttgtg 900
175        tgactcctgg tttctgcatc tgcccacctg gattctatgg agtgaactgt gacaaagcaa 960
176        actgctcaac cacctgcttt aatggaggga cctgtttcta ccctggaaaa tgtatttgcc 1020
177        ctccaggact agagggagag cagtgtgaaa tcagcaaatg cccacaaccc tgtcgaaatg 1080
178        gaggtaaatg cattggtaaa agcaaatgta gtgttccaa aggttaccag ggagacctct 1140
179        gttcaaagcc tgtctgcgag cctggctgtg gtgcacatgg aacctgccat gaacccaaca 1200
180        aatgccaatg tcaagaaggt tggcatggaa gacactgcaa taaaaggtac gaagccagcc 1260
181        tcatacatgc cctgaggcca gcaggcgccc agctcaggca gcacacgcct tcacttaaaa 1320
182        aggccgagga gcggcgggat ccacctgaat ccaattacat ctggtgaact ccgacatctg 1380
183        aaacgtttta agttacacca agttcatagc ctttgttaac ctttcatgtg ttgaatgttc 1440
184        aaataatgtt cattacactt aagaatactg gcctgaattt tattagcttc attataaatc 1500
185        actgagctga tatttactct tccttttaag ttttctaagt acgtctgtag catgatggta 1560
186        tagattttct tgtttcagtg ctttgggaca gattttatat tatgtcaatt gatcaggtta 1620
187        aaattttcag tgtgtagttg cagatatttt caaaattac aatgcattta tggtgtctgg 1680
188        gggcagggga acatcagaaa ggttaaattg ggcaaaaatg cgtaagtcac aagaatttgg 1740
189        atggtgcagt taatgttgaa gttacagcat ttcagatttt attgtcagat atttagatgt 1800
190        ttgttacatt tttaaaaatt gctcttaatt tttaaactct caatacaata tattttgacc 1860
191        ttaccattat tccagagatt cagtattaaa aaaaaaaaa ttacactgtg gtagtggcat 1920
192        ttaaacaata taatatattc taaacacaat gaaatatata aataatgta tgaactttt 1980
193        gcattggctt gaagcaatat aatatattgt aaacaaaaca cagctcttac ctaataaaca 2040
```

```
194        ttttatactg tttgtatgta taaaataaag gtgctgcttt agtttttttgg aaaaaaaaaa 2100
195        aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcggccgc gactctagag tcgacctgca 2160
196        gaagcttggc cgccatggcc caacttgttt attgcagctt ataatg              2206
198  <210> SEQ ID NO: 4
199  <211> LENGTH: 379
200  <212> TYPE: PRT
201  <213> ORGANISM: Homo sapiens
202  <400> SEQUENCE: 4
203        Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp Ser
204         1               5                  10                  15
205        Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro Pro Gln
206                      20                  25                  30
207        Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala Arg Val Leu
208                      35                  40                  45
209        Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu Gly Lys Met Ala
210              50                  55                  60
211        Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln Arg Met Pro Ala Ile
212         65                  70                  75                  80
213        Pro Val Asn Ile His Ser Met Asn Phe Thr Trp Gln Ala Ala Gly Gln
214                      85                  90                  95
215        Ala Glu Tyr Phe Tyr Glu Phe Leu Ser Leu Arg Ser Leu Asp Lys Gly
216                     100                 105                 110
217        Ile Met Ala Asp Pro Thr Val Asn Val Pro Leu Leu Gly Thr Val Pro
218                     115                 120                 125
219        His Lys Ala Ser Val Val Gln Val Gly Phe Pro Cys Leu Gly Lys Gln
220                     130                 135                 140
221        Asp Gly Val Ala Ala Phe Glu Val Asp Val Ile Val Met Asn Ser Glu
222        145                 150                 155                 160
223        Gly Asn Thr Ile Leu Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr
224                     165                 170                 175
225        Cys Gln Gln Ala Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys
226                     180                 185                 190
227        Asn Glu Arg Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His
228                     195                 200                 205
229        Cys Glu Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys
230                     210                 215                 220
231        Val Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn
232        225                 230                 235                 240
233        Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr Cys
234                     245                 250                 255
235        Phe Tyr Pro Gly Lys Cys Ile Cys Pro Pro Gly Leu Glu Gly Glu Gln
236                     260                 265                 270
237        Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly Gly Lys Cys
238                     275                 280                 285
239        Ile Gly Lys Ser Lys Cys Lys·Cys Ser Lys Gly Tyr Gln Gly Asp Leu
240                     290                 295                 300
241        Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly Ala His Gly Thr Cys
242        305                 310                 315                 320
243        His Glu Pro Asn Lys Cys Gln Cys Gln Glu Gly Trp His Gly Arg His
```

VERIFICATION SUMMARY
· PATENT APPLICATION: US/09/903,925A

DATE: 02/19/2002
TIME: 18:51:38

Input Set : **N:\Crf3\02112002\I903925A.raw**
Output Set: **N:\CRF3\02192002\I903925A.raw**

```
L:29 M:270 C: Current Application Number differs, Wrong Format
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:3206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:4238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:4338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:5176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
```